

Date: Sat, 10 Sep 94 04:30:33 PDT
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: Bulk
Subject: Ham-Space Digest V94 #250
To: Ham-Space

Ham-Space Digest Sat, 10 Sep 94 Volume 94 : Issue 250

Today's Topics:

 orbs\$.252.2of2.amsat
 orbs\$252.1of2.amsat
 orbs\$252.21.amsat
 SETIQuest Magazine - Exobiology

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Problems you can't solve otherwise to brian@ucsd.edu.

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We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Fri, 9 Sep 1994 08:10:00 MDT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!gatech!newsxfer.itd.umich.edu!
nntp.cs.ubc.ca!alberta!ve6mgs!usenet@network.ucsd.edu
Subject: orbs\$.252.2of2.amsat
To: ham-space@ucsd.edu

SB KEPS @ AMSAT \$ORBS-252.W
Orbital Elements 252.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES
FROM WA5QGD FORT WORTH,TX September 9, 1994
BID: \$ORBS-252.W
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9
Catalog number: 15427
Epoch time: 94250.77061508
Element set: 945
Inclination: 99.0435 deg

RA of node: 302.1944 deg
Eccentricity: 0.0015171
Arg of perigee: 350.3917 deg
Mean anomaly: 9.6960 deg
Mean motion: 14.13639907 rev/day
Decay rate: 5.6e-07 rev/day^2
Epoch rev: 50192
Checksum: 308

Satellite: NOAA-10
Catalog number: 16969
Epoch time: 94250.73664265
Element set: 842
Inclination: 98.5110 deg
RA of node: 257.2257 deg
Eccentricity: 0.0014132
Arg of perigee: 87.2811 deg
Mean anomaly: 272.9991 deg
Mean motion: 14.24903883 rev/day
Decay rate: 1.7e-07 rev/day^2
Epoch rev: 41425
Checksum: 313

Satellite: MET-2/17
Catalog number: 18820
Epoch time: 94250.39554426
Element set: 391
Inclination: 82.5412 deg
RA of node: 203.1859 deg
Eccentricity: 0.0015983
Arg of perigee: 315.5211 deg
Mean anomaly: 44.4664 deg
Mean motion: 13.84720625 rev/day
Decay rate: 3.6e-07 rev/day^2
Epoch rev: 33373
Checksum: 299

Satellite: MET-3/2
Catalog number: 19336
Epoch time: 94246.49018649
Element set: 320
Inclination: 82.5381 deg
RA of node: 268.2735 deg
Eccentricity: 0.0018539
Arg of perigee: 67.2957 deg
Mean anomaly: 293.0126 deg
Mean motion: 13.16968553 rev/day
Decay rate: 5.1e-07 rev/day^2

Epoch rev: 29356
Checksum: 332

Satellite: NOAA-11
Catalog number: 19531
Epoch time: 94250.70637069
Element set: 762
Inclination: 99.1810 deg
RA of node: 241.6693 deg
Eccentricity: 0.0011090
Arg of perigee: 264.3496 deg
Mean anomaly: 95.6404 deg
Mean motion: 14.13014274 rev/day
Decay rate: 6.0e-07 rev/day²
Epoch rev: 30679
Checksum: 295

Satellite: MET-2/18
Catalog number: 19851
Epoch time: 94246.56910060
Element set: 321
Inclination: 82.5172 deg
RA of node: 81.4335 deg
Eccentricity: 0.0015197
Arg of perigee: 11.7751 deg
Mean anomaly: 348.3746 deg
Mean motion: 13.84371453 rev/day
Decay rate: 2.0e-07 rev/day²
Epoch rev: 27853
Checksum: 299

Satellite: MET-3/3
Catalog number: 20305
Epoch time: 94247.84879149
Element set: 137
Inclination: 82.5512 deg
RA of node: 214.8917 deg
Eccentricity: 0.0007981
Arg of perigee: 92.6591 deg
Mean anomaly: 267.5439 deg
Mean motion: 13.04426670 rev/day
Decay rate: 4.4e-07 rev/day²
Epoch rev: 23328
Checksum: 321

Satellite: MET-2/19
Catalog number: 20670
Epoch time: 94246.22753404

Element set: 824
Inclination: 82.5492 deg
RA of node: 146.4951 deg
Eccentricity: 0.0014715
Arg of perigee: 292.4370 deg
Mean anomaly: 67.5233 deg
Mean motion: 13.84182449 rev/day
Decay rate: -8.4e-07 rev/day^2
Epoch rev: 21141
Checksum: 301

Satellite: FY-1/2
Catalog number: 20788
Epoch time: 94251.22505974
Element set: 71
Inclination: 98.8280 deg
RA of node: 268.7042 deg
Eccentricity: 0.0016171
Arg of perigee: 138.0415 deg
Mean anomaly: 222.1909 deg
Mean motion: 14.01315639 rev/day
Decay rate: -2.7e-07 rev/day^2
Epoch rev: 20533
Checksum: 285

Satellite: MET-2/20
Catalog number: 20826
Epoch time: 94249.01489895
Element set: 835
Inclination: 82.5210 deg
RA of node: 81.6755 deg
Eccentricity: 0.0012936
Arg of perigee: 175.7635 deg
Mean anomaly: 184.3668 deg
Mean motion: 13.83588735 rev/day
Decay rate: 5.3e-07 rev/day^2
Epoch rev: 19893
Checksum: 351

Satellite: MET-3/4
Catalog number: 21232
Epoch time: 94246.60325885
Element set: 731
Inclination: 82.5424 deg
RA of node: 114.1705 deg
Eccentricity: 0.0014309
Arg of perigee: 354.0476 deg
Mean anomaly: 6.0480 deg

Mean motion: 13.16464228 rev/day
Decay rate: 5.0e-07 rev/day^2
Epoch rev: 16167
Checksum: 272

Satellite: NOAA-12
Catalog number: 21263
Epoch time: 94250.70514379
Element set: 171
Inclination: 98.6126 deg
RA of node: 276.6469 deg
Eccentricity: 0.0013361
Arg of perigee: 1.7209 deg
Mean anomaly: 358.4004 deg
Mean motion: 14.22444842 rev/day
Decay rate: 8.4e-07 rev/day^2
Epoch rev: 17223
Checksum: 284

Satellite: MET-3/5
Catalog number: 21655
Epoch time: 94250.95119570
Element set: 739
Inclination: 82.5488 deg
RA of node: 58.2862 deg
Eccentricity: 0.0013781
Arg of perigee: 356.1519 deg
Mean anomaly: 3.9492 deg
Mean motion: 13.16834104 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 14735
Checksum: 314

Satellite: MET-2/21
Catalog number: 22782
Epoch time: 94243.24645844
Element set: 332
Inclination: 82.5514 deg
RA of node: 146.9692 deg
Eccentricity: 0.0023665
Arg of perigee: 18.4976 deg
Mean anomaly: 341.7038 deg
Mean motion: 13.83014037 rev/day
Decay rate: 8.9e-07 rev/day^2
Epoch rev: 5046
Checksum: 311

/EX

SB KEPS @ AMSAT \$ORBS-252.M
Orbital Elements 252.MISC

HR AMSAT ORBITAL ELEMENTS FOR MANNED AND MISCELLANEOUS SATELLITES
FROM WA5QGD FORT WORTH, TX September 9, 1994
BID: \$ORBS-252.M
TO ALL RADIO AMATEURS BT

Satellite: POSAT
Catalog number: 22829
Epoch time: 94243.20371906
Element set: 313
Inclination: 98.6454 deg
RA of node: 318.3232 deg
Eccentricity: 0.0010119
Arg of perigee: 342.4454 deg
Mean anomaly: 17.6372 deg
Mean motion: 14.28038204 rev/day
Decay rate: 5.0e-08 rev/day²
Epoch rev: 4840
Checksum: 266

Satellite: MIR
Catalog number: 16609
Epoch time: 94251.20537460
Element set: 751
Inclination: 51.6466 deg
RA of node: 131.0215 deg
Eccentricity: 0.0001551
Arg of perigee: 29.3923 deg
Mean anomaly: 330.7156 deg
Mean motion: 15.56960259 rev/day
Decay rate: 2.575e-05 rev/day²
Epoch rev: 48895
Checksum: 298

Satellite: HUBBLE
Catalog number: 20580
Epoch time: 94251.17564075
Element set: 533
Inclination: 28.4700 deg
RA of node: 62.8744 deg
Eccentricity: 0.0006129
Arg of perigee: 234.9428 deg
Mean anomaly: 125.0586 deg
Mean motion: 14.90666428 rev/day
Decay rate: 4.55e-06 rev/day²
Epoch rev: 4178

Checksum: 300

Satellite: GRO
Catalog number: 21225
Epoch time: 94250.71184672
Element set: 137
Inclination: 28.4634 deg
RA of node: 19.1121 deg
Eccentricity: 0.0003345
Arg of perigee: 73.0629 deg
Mean anomaly: 287.0534 deg
Mean motion: 15.41218139 rev/day
Decay rate: 2.466e-05 rev/day^2
Epoch rev: 6968
Checksum: 282

Satellite: UARS
Catalog number: 21701
Epoch time: 94245.53359212
Element set: 584
Inclination: 56.9840 deg
RA of node: 209.1014 deg
Eccentricity: 0.0004516
Arg of perigee: 108.4708 deg
Mean anomaly: 251.6814 deg
Mean motion: 14.96457348 rev/day
Decay rate: -2.164e-05 rev/day^2
Epoch rev: 16251
Checksum: 290

/EX

Date: Fri, 9 Sep 1994 08:06:00 MDT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!gatech!newsxfer.itd.umich.edu!
nntp.cs.ubc.ca!alberta!ve6mgs!usenet@network.ucsd.edu
Subject: orbs\$252.1of2.amsat
To: ham-space@ucsd.edu

SB KEPS @ AMSAT \$ORBS-252.0
Orbital Elements 252.0SCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES
FROM WA5QGD FORT WORTH,TX September 9, 1994
BID: \$ORBS-252.0
TO ALL RADIO AMATEURS BT

Satellite: A0-10
Catalog number: 14129
Epoch time: 94215.22805310
Element set: 295
Inclination: 27.0009 deg
RA of node: 314.8290 deg
Eccentricity: 0.6026240
Arg of perigee: 199.5326 deg
Mean anomaly: 120.6764 deg
Mean motion: 2.05881876 rev/day
Decay rate: -3.02e-06 rev/day^2
Epoch rev: 8375
Checksum: 286

Satellite: U0-11
Catalog number: 14781
Epoch time: 94246.07218413
Element set: 725
Inclination: 97.7857 deg
RA of node: 257.1497 deg
Eccentricity: 0.0012609
Arg of perigee: 25.2874 deg
Mean anomaly: 334.8945 deg
Mean motion: 14.69240533 rev/day
Decay rate: 5.7e-07 rev/day^2
Epoch rev: 56174
Checksum: 331

Satellite: RS-10/11
Catalog number: 18129
Epoch time: 94249.07204211
Element set: 954
Inclination: 82.9209 deg
RA of node: 269.0556 deg
Eccentricity: 0.0012014
Arg of perigee: 152.4193 deg
Mean anomaly: 207.7602 deg
Mean motion: 13.72340827 rev/day
Decay rate: 2.9e-07 rev/day^2
Epoch rev: 36100
Checksum: 276

Satellite: A0-13
Catalog number: 19216
Epoch time: 94250.73996645
Element set: 961
Inclination: 57.7429 deg
RA of node: 232.3061 deg

Eccentricity: 0.7230985
Arg of perigee: 349.7633 deg
Mean anomaly: 0.9499 deg
Mean motion: 2.09718556 rev/day
Decay rate: 2.71e-06 rev/day^2
Epoch rev: 4774
Checksum: 344

Satellite: F0-20
Catalog number: 20480
Epoch time: 94247.42862192
Element set: 722
Inclination: 99.0488 deg
RA of node: 24.3224 deg
Eccentricity: 0.0541357
Arg of perigee: 159.9373 deg
Mean anomaly: 202.3927 deg
Mean motion: 12.83228220 rev/day
Decay rate: 4.2e-07 rev/day^2
Epoch rev: 21429
Checksum: 294

Satellite: A0-21
Catalog number: 21087
Epoch time: 94251.01676119
Element set: 510
Inclination: 82.9364 deg
RA of node: 81.4154 deg
Eccentricity: 0.0033935
Arg of perigee: 211.9250 deg
Mean anomaly: 147.9850 deg
Mean motion: 13.74544212 rev/day
Decay rate: 9.4e-07 rev/day^2
Epoch rev: 18096
Checksum: 292

Satellite: RS-12/13
Catalog number: 21089
Epoch time: 94246.59078278
Element set: 725
Inclination: 82.9245 deg
RA of node: 313.3082 deg
Eccentricity: 0.0027684
Arg of perigee: 249.8946 deg
Mean anomaly: 109.9234 deg
Mean motion: 13.74045561 rev/day
Decay rate: 2.9e-07 rev/day^2
Epoch rev: 17941

Checksum: 339

Satellite: ARSENE
Catalog number: 22654
Epoch time: 94243.05287604
Element set: 275
Inclination: 2.0332 deg
RA of node: 96.0279 deg
Eccentricity: 0.2914017
Arg of perigee: 190.0489 deg
Mean anomaly: 163.3275 deg
Mean motion: 1.42202991 rev/day
Decay rate: -1.07e-06 rev/day^2
Epoch rev: 226
Checksum: 270

/EX

SB KEPS @ AMSAT \$ORBS-252.D
Orbital Elements 252.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
FROM WA5QGD FORT WORTH,TX September 9, 1994
BID: \$ORBS-252.D
TO ALL RADIO AMATEURS BT

Satellite: UO-14
Catalog number: 20437
Epoch time: 94246.24979174
Element set: 26
Inclination: 98.5880 deg
RA of node: 329.9585 deg
Eccentricity: 0.0010966
Arg of perigee: 326.7938 deg
Mean anomaly: 33.2550 deg
Mean motion: 14.29853612 rev/day
Decay rate: 1.0e-08 rev/day^2
Epoch rev: 24074
Checksum: 325

Satellite: A0-16
Catalog number: 20439
Epoch time: 94243.22354761
Element set: 823
Inclination: 98.5968 deg
RA of node: 328.2876 deg
Eccentricity: 0.0011378
Arg of perigee: 336.3042 deg
Mean anomaly: 23.7623 deg

Mean motion: 14.29907282 rev/day
Decay rate: 4.0e-08 rev/day²
Epoch rev: 24032
Checksum: 306

Satellite: D0-17
Catalog number: 20440
Epoch time: 94246.24913465
Element set: 825
Inclination: 98.5966 deg
RA of node: 331.6231 deg
Eccentricity: 0.0011315
Arg of perigee: 326.6136 deg
Mean anomaly: 33.4328 deg
Mean motion: 14.30047248 rev/day
Decay rate: -3.0e-08 rev/day²
Epoch rev: 24077
Checksum: 284

Satellite: W0-18
Catalog number: 20441
Epoch time: 94243.21721374
Element set: 826
Inclination: 98.5975 deg
RA of node: 328.6270 deg
Eccentricity: 0.0012285
Arg of perigee: 335.7331 deg
Mean anomaly: 24.3277 deg
Mean motion: 14.30021068 rev/day
Decay rate: 6.0e-08 rev/day²
Epoch rev: 24034
Checksum: 280

Satellite: L0-19
Catalog number: 20442
Epoch time: 94246.75849338
Element set: 823
Inclination: 98.5978 deg
RA of node: 332.4001 deg
Eccentricity: 0.0012219
Arg of perigee: 324.7459 deg
Mean anomaly: 35.2913 deg
Mean motion: 14.30118615 rev/day
Decay rate: 1.3e-07 rev/day²
Epoch rev: 24086
Checksum: 303

Satellite: U0-22

Catalog number: 21575
Epoch time: 94246.12512292
Element set: 528
Inclination: 98.4302 deg
RA of node: 319.0283 deg
Eccentricity: 0.0008689
Arg of perigee: 59.0874 deg
Mean anomaly: 301.1166 deg
Mean motion: 14.36929252 rev/day
Decay rate: $-3.0\text{e-}08$ rev/day²
Epoch rev: 16427
Checksum: 301

Satellite: K0-23
Catalog number: 22077
Epoch time: 94243.11394838
Element set: 422
Inclination: 66.0839 deg
RA of node: 123.1079 deg
Eccentricity: 0.0015430
Arg of perigee: 270.1307 deg
Mean anomaly: 89.7937 deg
Mean motion: 12.86286549 rev/day
Decay rate: $-3.7\text{e-}07$ rev/day²
Epoch rev: 9642
Checksum: 315

Satellite: A0-27
Catalog number: 22825
Epoch time: 94246.24191330
Element set: 321
Inclination: 98.6482 deg
RA of node: 321.2471 deg
Eccentricity: 0.0008932
Arg of perigee: 346.8547 deg
Mean anomaly: 13.2395 deg
Mean motion: 14.27633083 rev/day
Decay rate: $1.4\text{e-}07$ rev/day²
Epoch rev: 4882
Checksum: 296

Satellite: I0-26
Catalog number: 22826
Epoch time: 94243.20374381
Element set: 320
Inclination: 98.6495 deg
RA of node: 318.2912 deg
Eccentricity: 0.0009468

Arg of perigee: 356.6267 deg
Mean anomaly: 3.4849 deg
Mean motion: 14.27737479 rev/day
Decay rate: 3.0e-08 rev/day^2
Epoch rev: 4839
Checksum: 330

Satellite: K0-25
Catalog number: 22830
Epoch time: 94246.70054461
Element set: 327
Inclination: 98.5472 deg
RA of node: 318.1598 deg
Eccentricity: 0.0011121
Arg of perigee: 310.7839 deg
Mean anomaly: 49.2365 deg
Mean motion: 14.28061576 rev/day
Decay rate: -2.9e-07 rev/day^2
Epoch rev: 4890
Checksum: 306

Satellite: 22828
Catalog number: 22828
Epoch time: 94246.70003989
Element set: 299
Inclination: 98.6425 deg
RA of node: 321.7648 deg
Eccentricity: 0.0010289
Arg of perigee: 331.7229 deg
Mean anomaly: 28.3378 deg
Mean motion: 14.28064524 rev/day
Decay rate: 4.0e-08 rev/day^2
Epoch rev: 1698
Checksum: 343

/EX

Date: Fri, 9 Sep 1994 08:13:00 MDT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!gatech!newsxfer.itd.umich.edu!
nnntp.cs.ubc.ca!alberta!ve6mgs!usenet@network.ucsd.edu
Subject: orbs\$252.21.amsat
To: ham-space@ucsd.edu

SB KEPS @ AMSAT \$ORBS-252.N
2Line Orbital Elements 252.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM WA5QGD FORT WORTH,TX September 9, 1994
BID: \$ORBS-252.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJJ KKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

AO-10

1 14129U 83058B 94215.22805310 -.00000302 00000-0 10000-3 0 2952
2 14129 27.0009 314.8290 6026240 199.5326 120.6764 2.05881876 83753

UO-11

1 14781U 84021B 94246.07218413 .00000057 00000-0 17474-4 0 7253
2 14781 97.7857 257.1497 0012609 25.2874 334.8945 14.69240533561743

RS-10/11

1 18129U 87054A 94249.07204211 .00000029 00000-0 14891-4 0 9549
2 18129 82.9209 269.0556 0012014 152.4193 207.7602 13.72340827361000

AO-13

1 19216U 88051B 94250.73996645 .00000271 00000-0 10000-4 0 9614
2 19216 57.7429 232.3061 7230985 349.7633 0.9499 2.09718556 47747

FO-20

1 20480U 90013C 94247.42862192 .00000042 00000-0 16291-3 0 7229
2 20480 99.0488 24.3224 0541357 159.9373 202.3927 12.83228220214296

AO-21

1 21087U 91006A 94251.01676119 .00000094 00000-0 82657-4 0 5100
2 21087 82.9364 81.4154 0033935 211.9250 147.9850 13.74544212180969

RS-12/13

1 21089U 91007A 94246.59078278 .00000029 00000-0 15038-4 0 7257
2 21089 82.9245 313.3082 0027684 249.8946 109.9234 13.74045561179417

ARSENE

1 22654U 93031B 94243.05287604 -.00000107 00000-0 00000 0 0 2754
2 22654 2.0332 96.0279 2914017 190.0489 163.3275 1.42202991 2266

UO-14

1 20437U 90005B 94246.24979174 .00000001 00000-0 17332-4 0 260
2 20437 98.5880 329.9585 0010966 326.7938 33.2550 14.29853612240743

AO-16

1 20439U 90005D 94243.22354761 .00000004 00000-0 18510-4 0 8233
2 20439 98.5968 328.2876 0011378 336.3042 23.7623 14.29907282240320

DO-17

1 20440U 90005E 94246.24913465 -.00000003 00000-0 15899-4 0 8251
2 20440 98.5966 331.6231 0011315 326.6136 33.4328 14.30047248240778

WO-18

1 20441U 90005F 94243.21721374 .00000006 00000-0 19210-4 0 8266
2 20441 98.5975 328.6270 0012285 335.7331 24.3277 14.30021068240340

L0-19

1 20442U 90005G 94246.75849338 .000000013 00000-0 22094-4 0 8239
2 20442 98.5978 332.4001 0012219 324.7459 35.2913 14.30118615240865

U0-22

1 21575U 91050B 94246.12512292 -.000000003 00000-0 13583-4 0 5280
2 21575 98.4302 319.0283 0008689 59.0874 301.1166 14.36929252164279

K0-23

1 22077U 92052B 94243.11394838 -.000000037 00000-0 10000-3 0 4221
2 22077 66.0839 123.1079 0015430 270.1307 89.7937 12.86286549 96423

A0-27

1 22825U 93061C 94246.24191330 .000000014 00000-0 23661-4 0 3212
2 22825 98.6482 321.2471 0008932 346.8547 13.2395 14.27633083 48829

I0-26

1 22826U 93061D 94243.20374381 .000000003 00000-0 19182-4 0 3205
2 22826 98.6495 318.2912 0009468 356.6267 3.4849 14.27737479 48394

K0-25

1 22830U 93061H 94246.70054461 -.000000029 00000-0 55638-5 0 3275
2 22830 98.5472 318.1598 0011121 310.7839 49.2365 14.28061576 48904

22828

1 22828U 93061F 94246.70003989 .000000004 00000-0 19255-4 0 2995
2 22828 98.6425 321.7648 0010289 331.7229 28.3378 14.28064524 16987

NOAA-9

1 15427U 84123A 94250.77061508 .000000056 00000-0 53730-4 0 9455
2 15427 99.0435 302.1944 0015171 350.3917 9.6960 14.13639907501927

NOAA-10

1 16969U 86073A 94250.73664265 .000000017 00000-0 25499-4 0 8422
2 16969 98.5110 257.2257 0014132 87.2811 272.9991 14.24903883414252

MET-2/17

1 18820U 88005A 94250.39554426 .000000036 00000-0 18711-4 0 3915
2 18820 82.5412 203.1859 0015983 315.5211 44.4664 13.84720625333730

MET-3/2

1 19336U 88064A 94246.49018649 .000000051 00000-0 10000-3 0 3202
2 19336 82.5381 268.2735 0018539 67.2957 293.0126 13.16968553293561

NOAA-11

1 19531U 88089A 94250.70637069 .000000060 00000-0 57505-4 0 7620
2 19531 99.1810 241.6693 0011090 264.3496 95.6404 14.13014274306795

MET-2/18

1 19851U 89018A 94246.56910060 .000000020 00000-0 45419-5 0 3211
2 19851 82.5172 81.4335 0015197 11.7751 348.3746 13.84371453278539

MET-3/3

1 20305U 89086A 94247.84879149 .000000044 00000-0 10000-3 0 1373
2 20305 82.5512 214.8917 0007981 92.6591 267.5439 13.04426670233281

MET-2/19

1 20670U 90057A 94246.22753404 -.000000084 00000-0 -88752-4 0 8243
2 20670 82.5492 146.4951 0014715 292.4370 67.5233 13.84182449211411

FY-1/2

1 20788U 90081A 94251.22505974 -.000000027 00000-0 10000-4 0 714
2 20788 98.8280 268.7042 0016171 138.0415 222.1909 14.01315639205330

MET-2/20

1 20826U 90086A 94249.01489895 .000000053 00000-0 34844-4 0 8357
2 20826 82.5210 81.6755 0012936 175.7635 184.3668 13.83588735198932

MET-3/4

1 21232U 91030A 94246.60325885 .000000050 00000-0 10000-3 0 7318
2 21232 82.5424 114.1705 0014309 354.0476 6.0480 13.16464228161678

NOAA-12

1 21263U 91032A 94250.70514379 .000000084 00000-0 57099-4 0 1713
2 21263 98.6126 276.6469 0013361 1.7209 358.4004 14.22444842172235

MET-3/5

1 21655U 91056A 94250.95119570 .000000051 00000-0 10000-3 0 7399
2 21655 82.5488 58.2862 0013781 356.1519 3.9492 13.16834104147355

MET-2/21

1 22782U 93055A 94243.24645844 .000000089 00000-0 67543-4 0 3329
2 22782 82.5514 146.9692 0023665 18.4976 341.7038 13.83014037 50463

POSAT

1 22829U 93061G 94243.20371906 .000000005 00000-0 19698-4 0 3134
2 22829 98.6454 318.3232 0010119 342.4454 17.6372 14.28038204 48405

MIR

1 16609U 86017A 94251.20537460 .00002575 00000-0 41773-4 0 7513
2 16609 51.6466 131.0215 0001551 29.3923 330.7156 15.56960259488952

HUBBLE

1 20580U 90037B 94251.17564075 .000000455 00000-0 30100-4 0 5336
2 20580 28.4700 62.8744 0006129 234.9428 125.0586 14.90666428 41782

GRO

1 21225U 91027B 94250.71184672 .00002466 00000-0 51524-4 0 1370
2 21225 28.4634 19.1121 0003345 73.0629 287.0534 15.41218139 69681

UARS

1 21701U 91063B 94245.53359212 -.00002164 00000-0 -16814-3 0 5842
2 21701 56.9840 209.1014 0004516 108.4708 251.6814 14.96457348162519

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